SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	SOIL OR WASTE	— рт —	PNEUMATIC TUBE
	VENT	<del>-</del>	WALL HYDRANT
— AW ——	ACID WASTE	+	HOSE BIBB
AV	ACID VENT		MIXING VALVE
— LW ——	LABORATORY WASTE	(M)	WATER METER
LV	LABORATORY VENT		DOMESTIC WATER SERVICE DOUBLE
— IW ——	INDIRECT WASTE	<del>-                                   </del>	CHECK BACKFLOW PREVENTER
BWV	BACK WATER VALVE	<del>────────</del>	DOMESTIC WATER SERVICE REDUCED
— SW——	STORM WATER		PRESSURE ZONE BACKFLOW PREVENTER  GAS METER
— SSW ——	SECONDARY STORM WATER	— G —	
$\square_{D-(-)}$	DRAIN (ALL TYPES)		SHUTOFF VALVE BALANCING VALVE
	Foundation drain		
— PD ——	PUMP DISCHARGE		CHECK VALVE
	COLD WATER		RELIEF VALVE
	HOT WATER	<del></del>	PRESSURE REDUCING VALVE
440	HOT WATER RETURN		THROTTLING VALVE
-—140——	140 DEGREES F HOT WATER DETURN		SOLENOID VALVE
<b>-</b> 140	140 DEGREES F HOT WATER RETURN		TWO WAY AUTOMATIC CONTROL VALVE
-—HP ——	HIGH PRESSURE COLD WATER		THREE—WAY AUTOMATIC CONTROL VALVE
-—HP ——	HIGH PRESSURE HOT WATER	<del></del>	THERMAL EXPANSION VALVE UNION
HP	HIGH PRESSURE HOT WATER RETURN	<del></del>	
— CH —	CHILLED DRINKING WATER	<del></del>	STRAINER
— A ——	COMPRESSED AIR	<del></del>	ANCHOR
— LA ——	LABORATORY AIR	<del></del>	EXPANSION JOINT
— MA ——	MEDICAL AIR	_=_	PIPE GUIDE
— AR ——	ARGON	<u>⊢</u> ⊙	AIR VENT
— G——	GAS	H≡  -⊘	THERMOMETER PRESSURE GAUGE
— HE ——	HELIUM		
— N——	NITROGEN	2.0	FLOW INDICATOR FOR STATIONARY METER (GPM)
— NO —	NITROUS OXIDE	2.0	FLOW INDICATOR FOR PORTABLE METER (GPM)
— 0——	OXYGEN VACUUM		CAP (PIPE OR DUCT)
LV	LABORATORY VACUUM	•	CONNECT TO EXISTING
— MV ——	MEDICAL VACUUM		END POINT OF REMOVAL OF EXISTING
<b>⊢</b> ()	OUTLETS (GAS SERVICE TYPE)		
J_SV_J	SECTION VALVE		FIRE LINE
— NPW ——	NON-POTABLE WATER	SP	SPRINKLER PIPING
— DIS ——	DEIONIZED WATER SUPPLY		PENDENT SPRINKLER HEAD
DIR	DEIONIZED WATER RETURN	<del></del>	UPRIGHT SPRINKLER HEAD
— DWS ——	DISTILLED WATER SUPPLY		SIDEWALL SPRINKLER HEAD
DWR	DISTILLED WATER RETURN		ALARM CHECK VALVE
— ROS —	REVERSE OSMOSIS WATER SUPPLY		SUPERVISED VALVE
ROR	REVERSE OSMOSIS WATER SUPPLI REVERSE OSMOSIS WATER RETURN	φ	
	PNEUMATIC TUBE	— •	FLOW ALARM SWITCH
— PT ——	WALL HYDRANT		FIRE SERVICE CHECK VALVE
<b>→</b>	HOSE BIBB		FIRE SERVICE DOUBLE CHECK
	MIXING VALVE		BACKFLOW PREVENTER
	WATER METER		FIRE SERVICE REDUCED PRESSURE ZONE BACKFLOW PREVENTER
<b>O</b>	DOMESTIC WATER SERVICE DOUBLE	κ	
<del>-&gt; †••••</del>	CHECK BACKFLOW PREVENTER		SIAMESE CONNECTION
<del>Ţ</del>	DOMESTIC WATER SERVICE REDUCED	₽-	FIRE TEST HEADER
·	PRESSURE ZONE BACKFLOW PREVENTER		
- <u>G</u> -	GAS METER		
<del>-</del>	SHUTOFF VALVE		
	BALANCING VALVE		
<b>—</b>	CHECK VALVE		
		l l	

AIR CONDITIONING UNIT	HB	HAGE DIDE		RADIUS/REFRIGERANT/REGISTER/RISE/RISER
AUTOMATIC CONTROL VALVE	HC	HEIGHT/HIGH/HUMIDISTAT/HUMIDITY SENSOR HOSE BIBB HEATING COIL	RA RAD	RETURŃ AIR RADIUS
ACCESS DOOR ABOVE FINISHED FLOOR	HOA HORIZ	HAND-OFF-AUTOMATIC SWITCH HORIZONTAL	RAF RD	return air fan Round
AIR FLOW MONITORING STATION AIR HANDLING UNIT	l HP	HEAT PUMP/HIGH PRESSURE/HORSEPOWER HOT WATER HEATING RETURN/HOUR	REF	REFERENCE/REFRIGERANT/REFIGERATION REFRIGERANT/REFRIGERATION
ANCHOR	HS	HOT WATER HEATING SUPPLY	REQD	REQUIRED
AIR TERMINAL UNIT	HW	HOT WATER	REV	return Revise/Ŗevision
AVERAGE	HX HZ	HEAT EXCHANGER HERTZ	RHC	REHEAT/RELATIVE HUMIDITY REHEAT COIL RAIN LEADER/REFRIGERANT LIQUID
ACID WASTE AMERICAN WIRE GAGE			RL	RAIN LEADER/REFRIGERANT LIQUID REVERSE OSMOSIS WATER RETURN
	l ID	INLET/INPUT INSIDE DIAMETER	ROS	REVERSE OSMOSIS WATER SUPPLY REVOLUTIONS PER MINUTE
	IN INCLII	INCH/INCHES	RPS	REVOLUTIONS PER SECONDS
BACKFLOW PREVENTER	INT	INTERIOR	RV	REFERENCE SENSOR/REFRIGERANT SENSOR/REFRIGERANT SUCRELIEF VALVE
BACKWARD INCLINED	IPS	Iron Pipe Size	RX	REMOVE EXISTING
BRITISH THERMAL UNIT PER HOUR	IW	INDIRECT WASTE	S	SANITARY/SECONDS/SOIL/SOUTH/SWICH
CADACITY	K	KITCHEN EQUIPMENT TYPE	SAF	SOUND ATTENUATOR/SUPPLY AIR SUPPLY AIR
COOLING COIL			SCH SCHR	SCHEDULE SECONDARY CHILLED WATER RETURN
	K0	KNOCK-OUT	SCHS	SECONDARY CHILLED WATER SUPPLY
CHILLED WATER RETURN	KWH	KILOWATT HOURS	SEER	SINGLE DUCT/SMOKE DAMPER/SMOKE DETECTOR/STORM DRAIL SEASONAL ENERGY EFFICIENCY RATIO
CAST IRON		I ENCTH / LITEDS / LOLINED	SERV	SENSIBLE COOLING SERVICE
CENTERLINE	LAT	Leaving air temperature	SF	SQUARE FEET/SQUARE FOOT SECONDARY HOT WATER RETURN/SENSIBLE HEAT RATIO
CEILING/COOLING CENTER	LB	POUNDS	SHS	SECONDARY HOT WATER SUPPLY
COLUMN	LFT I P	LEAVING FLUID TEMPERATURE	SL	SOLIDS INTERCEPTOR SLEEVE/SLOPE
CONDENSATE/CONDENSER/CONDENSING	LWT	LEAVING WATER TEMPERATURE	SPEC	SPRINKLER PIPING/STATIC PRESSURE SPECIFICATION
CONVECTOR/CONVERTER			SPSS SQ	STATIC PRESSURE SENSING STATION SQUARE
COPPER/CUBIC	M	MECHANICAL/METERS	SS	SERVICE SINK/STAINLESS STEEL SATURATION SUCTION TEMPERATURE
CHECK VALVE/CONSTANT VOLUME COLD WATER	MAX	MAXIMUM	SSW	SUPPLEMENTAL STORM WATER
CONNECT TO EXISTING	MBH MCC	THOUSAND BTU PER HOUR	STL	STANDARD STEEL
DAMPER/DFFP/DFPTH/DIAMFTER/DIFFLISER/DRAIN/DROP	MECH	MECHANICAL	STR	STEAM STRUCTURAL
DECIBEL/DRY BULB	MH	MANHOLE	SUCT SUP	SUCTION SUPPLY
DESIGNATION	MISC	MISCELLANEOUS	SUSP	SUSPEND/SUSPENDED SECTION VALVE
DIAMETER	MOV	MOTOR-OPERATED VALVE	SW	STORM WATER
DOWN DIFFERENTIAL PRESSURE SWITCH	MP MTD	MEDIUM PRESSURE MOUNTED	212	SYSTEM
DRAWING	MTG	MOUNTING	,	TEMPERATURE SENSOR/THERMOSTAT
DOMESTIC MATER HEATER	""'		T&B	TOP AND BOTTOM
EAST/ELECTRICAL	N N /A	NEWTONS/NITROGEN/NORTH	TEMP	TOP OF CURB TEMPERATURE/TEMPORARY
ENTERING AIR TEMPERATURE	N/A NC	NOISE CRITERIA/NORMALLY CLOSED	TP	TERMINAL TOTAL PRESSURE
ELECTRICAL EQUIPMENT ROOM/ENERGY EFFICIENCY RATIO EXHAUST FAN	NO	NITROUS OXIDE/NORMALLY OPEN/NUMBER	TRANS TSP	TRANSFER TOTAL STATIC PRESSURE
ENTERING FLUID TEMPERATURE	NOM	NOMINAL	l TU	TERMINAL UNIT TEMPERING VALVE
EXTERNAL STATIC PRESSURE	NPSH	NET POSITIVE SUCTION HEAD	TYP	TYPICAL
EXISTING TO REMAIN	NPSHR	NET POSITIVE SUCTION HEAD REQUIRED	110	LINDEDODOLIND
ENTERING WATER TEMPERATURE EXISTING	NPW NTS	NON-POTABLE WATER NOT TO SCALE	UH	UNDERGROUND UNIT HEATER
EXHAUST	0	OUTPUT/OXYGEN	UV	ULTRAVIOLET
FAHRENHEIT/FAN/FIRE/FIRE LINE/FREEZESTAT	OA OC	OUTDOÓR AIR ON CENTER	l <sub>v</sub>	VACUUM/VALVE/VENT/VOLTS
FLEXIBLE CÓNNECTION/FORWARD CURVED FLOOR CLEANOUT	OD	OUTSIDE DIAMETER	VAR VAV	VARIABLE/VARIES VARIABLE AIR VOLUME
FAN COIL UNIT	OF	OVERFLOW	VCP	VITRIFIED CLAY PIPE
FIRE DEPARTMENT VALVE	OFOI	OWNER FURNISHED, OWNER INSTALLED	VERT	VELOCITY VERTICAL
FIGURE	OH OPER	OVERHEAD OPERATING/OPERATOR	VSD	VOLUME VARIABLE SPEED DRIVE
FLAT ON BOTTOM		,	VTR W	vent through roof Vapor vent
FUEL OIL RETURN	P PA	PIPE/PLUMBING FIXTURE TYPE/PRESSURE/PUMP PASCAL		
FLAT ON TOP	PD	PRESSURE DROP/PUMP DISCHARGE	W   W/	WASTE/WATER/WATTS/WEST/WIDTH WITH
FLUID PRESSURE DROP	PF	PLENUM FAN	W/O   WR	WITHOUT WET BULB
FLOW SWITCH	PHC	PREHEAT COIL	WC	WATER CLOSET/WATER COLUMN/WHEELCHAIR ACCESSIBLE WATER GAGE
FEET/FOOT	PPM	PARTS PER MILLION	WH	WALL HYDRANT/WATER HEATER
FINNED TUBE RADIATION FACE VELOCITY	PREL PRESS	PRELIMINARY PRESSURE	WSHPU	WATER PRESSURE DROP WATER SOURCE HEAT PUMP UNIT
	PROP	PROPELLER	WT WTR	WEIGHT Water
GAS/GRAMS/GRILLE	PSF	POUNDS PER SQUARE FOOT		
GALLON	PSIG	PRESSURE - POUNDS PER SQUARE INCH, GAGE	X#RET	X PSIG STEAM
GRAVITY BACKDRAFT DAMPER	PVC	POLIVINIL CHLUKIDE	X#SIM	X PSIG CONDENSATE RETURN
GENERAL GREASE INTERCEPTOR			YD	YARD
GALLONS PER HOUR			YR	YEAR
GREASE RECOVERY DEVICE				
GAS-FIRED WATER HEATER				
	1			
	ANCHOR AMP PRESSURE DROP AIR TERMINAL UNIT ACID VENT/AIR VENT AVERAGE ACID WASTE ALGORITHME GAGE  BULIDING AUTOMATION SYSTEM BAROMETRIC BACKORAFT DAMPER BAROMETRIC BACKORAFT DAMPER BACKOM PREVENTER BAROMETRIC BACKORAFT DAMPER BACKELONG PREVENTER BACKARO INCLINED BRITISH THERMAL UNIT PER HOUR  CAPACITY COOLING COIL CUBIC FEET PER HOUR CUBIC FEET PER MINUTE CHILLED WATER RETURN CHILLED WATER RETURN CHILLED WATER SUPPLY CAST IRON ACST IRON ACST IRON CAST IRON CONNECT OF PERFORMANCE CONDENSATE/CONDENSER/CONDENSING CONNECT OF CONNECT OF PERFORMANCE COPPER/CUBIC CHECK VALVE/CONSTANT VOLUME COLLD WATER CONNECT TO EXISTING  DAMPER/DEEP/DEPTH/DIAMETER/DIFFUSER/DRAIN/DROP DECIBEL/DRY BULB DEGREES DESIGNATION DIFFERENTIAL PRESSURE SWITCH DRAWING DOMESTIC WATER HEATER  EAST/FLEETRICAL EACH/EXHAUST AIR ENTERING AIR TEMPERATURE ELECTRICAL EQUIPMENT ROOM/ENERGY EFFICIENCY RATIO DRAWING DOMESTIC WATER HEATER  EAST/FLEETRICAL EACH/EXHAUST AIR ENTERING VALVE HEATURE ELECTRICAL EQUIPMENT ROOM/ENERGY EFFICIENCY RATIO DRAWING DOMESTIC WATER HEATER  EAST/FLEETRICAL EACH/EXHAUST AIR ENTERING VALVE HEAVEN EXTERNAL STATIC PRESSURE EXHAUST FAN ENTERING WATER TEMPERATURE ELECTRICAL EQUIPMENT ROOM/ENERGY EFFICIENCY RATIO DEVALUS FOR THE SALVE EXISTING EXHAUST FOR THE LINE/FREZESTAT FLEXIBLE CONNECTION/FORWARD CURVED FLOOR CLEANOUT FAN COLL UNIT FIRE DEPARTMENT VALVE EXTERNAL STATIC PRESSURE EXPANSION TANK EXISTING EXHAUST FOR THE LINE/FREZESTAT FLEXIBLE CONNECTION/FORWARD CURVED FLOOR CLEANOUT FAN COLL UNIT FRIE DEPARTMENT VALVE FLEXIBLE CONNECTION/FORWARD CURVED FLOOR DEPARTMENT VALVE FLOOR DEPARTMENT VALVE FLOOR SINTON FIRE AND SMOKE DAMPER FLEYFOOT FINISHED THOOR FLOOR—TO—FLOOR FOULL OIL RETURN FUEL OIL SUPPLY FLAT ON TOP FAAT POWERED BOX TERMINAL UNIT FULLO PER BINUTE FLOOR SINTICH CORRESSE SAINTERE PROUPE GRAESE SAINTERE FROM FROM GRAESE SAINTERE FROM FROM GRAESE SAINTERE FROM FROM GRAESE FROM FROM G	ANCHOR AIR PRESSURE DROP AIR PRESSURE SURT HAVE ALD VAST ARE VALUE BARGMERIC BACKDRAFT DAMPER BACKLOW PREVAILER BRITCH THERMAL UNIT PER HOUR  CAPACITY COOLING COIL CUBIC FEET PER HOUR CUBIC FEET PER MINUTE CAST IRON CHILLED WARER RETURN CHILLED WARER RETURN CHILLED WARER RETURN CHILLED WARER RETURN CHILLED WARER SUPPLY CAST IRON CONCERT CONCENTION CONCERT LOCATION CONCERT CONCENTION CONCERT CONCENTION CONCERT CONCENTION CONCERT MAY CONNECT TO EXISTING  MAY MAY MAY CONNECT TO EXISTING  CAST IRON DAMPER DEEP POPTH/DIAMETER/DIFFUSER/DRAIN/DROP DECIDEL/DRY BULB DESIGNATION DECREES DE	ARE PERMANEL STATE OF THE PERMANEL STATE OF	## CONTROLLED   100   10

## GENERAL NOTES: (APPLICABLE TO ALL PLUMBING DRAWINGS)

- THE LOCATION OF EXISTING UNDERGROUND UTILITIES IS SHOWN IN AN APPROXIMATE WAY ONLY. DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. REPAIR ALL DAMAGES OCCASIONED BY FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.
- 2. RUN ALL SOIL, WASTE AND DRAIN PIPING WITH 2 PERCENT MINIMUM GRADE UNLESS OTHERWISE NOTED. HORIZONTAL VENT PIPING SHALL BE GRADED TO DRIP BACK TO THE SOIL OR WASTE PIPE BY GRAVITY.
- 3. ELEVATIONS NOTED ARE TO CENTERLINES OF PIPES FOR ALL PRESSURE LINES AND TO INVERT FOR ALL GRAVITY FLOW LINES.
- 4. ADJUST SEWER INVERTS TO KEEP TOPS OF PIPE IN LINE WHERE PIPE SIZE CHANGES.
- 5. MAINTAIN MINIMUM OF 3'-0" COVER OVER UNDERGROUND WATER MAIN AND MINIMUM OF 2'-6" COVER OVER UNDERGROUND SEWERS AND DRAINS.
- 6. PROVIDE SHUTOFF VALVES IN DOMESTIC WATER SYSTEMS IN BRANCH LINES SERVING TWO OR MORE FIXTURES.
- 7. UNLESS OTHERWISE NOTED, ALL PIPING IS OVERHEAD, TIGHT TO UNDERSIDE OF SLAB, WITH SPACE FOR INSULATION IF REQUIRED.
- 8. INSTALL PIPING SO THAT ALL VALVES AND DAMPERS ARE ACCESSIBLE.

CONTRACT DOCUMENTS.

- 9. COORDINATE ALL PLUMBING WORK WITH ELECTRICAL WORK, ETC., SHOWN ON OTHER
- 10. MAINTAIN MINIMUM 6'-8" (2000 mm) CLEARANCE TO UNDERSIDE OF PIPES, SUSPENDED EQUIPMENT, ETC., THROUGHOUT ACCESS ROUTES IN MECHANICAL AND ELECTRICAL
- 11. UNLESS OTHERWISE NOTED, WHERE HOT AND COLD WATER PIPING DROPS INTO PIPE CHASE, THE SIZE SHOWN FOR THE PIPE DROPS SHALL BE USED TO THE LAST FIXTURE.
- 12. CERTAIN ITEMS SUCH AS ACCESS DOORS, CLEANOUTS, RISE AND DROPS IN PIPING, ETC., ARE INDICATED ON THE DRAWINGS FOR CLARITY OR A SPECIFIC LOCATION REQUIREMENT AND SHALL NOT BE INTERPRETED AS THE EXTENT OF THE REQUIREMENTS FOR THESE ITEMS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THESE ITEMS AS REQUIRED ELSEWHERE IN THE
- 13. WHERE THE INSTALLATION OF NEW SERVICES OR THE EXTENSION OF EXISTING SERVICES REQUIRE CUTTING OF EXISTING FLOORS, WALLS, PARTITIONS, ETC., IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CHECK FOR THE PRESENCE OF EXISTING MECHANICAL AND/OR ELECTRICAL SERVICES WITHIN OR IMMEDIATELY BENEATH CONSTRUCTION AND EXERCISE NECESSARY PRECAUTIONS TO PREVENT DAMAGE TO THE SERVICES OR INJURY TO HIS PERSONNEL DUE TO CONTACT WITH SAME. WHERE PRACTICAL, SUCH EXISTING SERVICES SHALL BE TEMPORARILY DISCONNECTED DURING THE CUTTING OPERATION. SUCH OUTAGES IN SERVICE SHALL BE SCHEDULED IN ADVANCE WITH THE OWNER.
- 14. REFRIGERANTS SHALL BE RECOVERED FROM ALL REFRIGERATION EQUIPMENT IN ACCORDANCE WITH ARI AND EPA STANDARDS. RECOVERED REFRIGERANT SHALL BE PLACED IN CONTAINERS LABELED IN ACCORDANCE WITH ARI AND EPA STANDARDS AND TURNED OVER TO THE /CONTRACTING OFFICER/OWNER/.
- 15. FLOW SCHEMATIC AND RISER DIAGRAMS INDICATE FLOW AND OPERATION CONCEPTS AS WELL AS GENERAL ARRANGEMENT OF EQUIPMENT. VALVES, PRESSURE GAUGES, ETC. ARE INDICATED FOR THIS PURPOSE. ADDITIONAL VALVES, PRESSURE GAUGES, ETC. SHALL BE PROVIDED AS SHOWN ON VARIOUS EQUIPMENT DETAILS. SEE PLANS AND DETAILS FOR PIPE SIZES NOT INDICATED ON FLOW SCHEDULES AND RISER DIAGRAMS.
- 16. CONTRACTOR SHALL RECYCLE ALL MERCURY SWITCH THERMOSTATS THAT ARE REMOVED. RECYCLED THERMOSTATS SHALL BE DELIVERED TO PARTICIPATING WHOLESALERS.
- 17. CONTRACTOR SHALL BE RESPONSIBLE FOR RESEARCHING ALL SYSTEMS THAT A PARTICULAR OUTAGE WILL AFFECT AS WELL AS LOCATING ALL SHUTOFF POINTS. THIS INFORMATION SHALL BE INCLUDED IN THE OUTAGE PLAN TO BE SUBMITTED TO VA FACILITIES DEPARTMENT FOR APPROVAL.
- 18. USE OF COMBINATION WYE OR CROSS—TEE FITTINGS IN THE PLUMBING SANITARY SYSTEM ARE NOT ALLOWED.
- 19. EXISTING SYSTEMS SHOWN TO BE REMOVED ON DEMOLITION DRAWINGS SHALL BE REMOVED BACK TO MAINS. NO SYSTEM SHALL BE ABANDONED IN PLACE.
- 20. COMPLETE LAYOUT DRAWINGS SHALL BE REQUIRED BY PARAGRAPH, SUBMITTALS. CONSTRUCTION WORK
- SHALL NOT START ON ANY SYSTEM UNTIL THE LAYOUT DRAWINGS HAVE BEEN APPROVED BY VA.
- 21. ANY ABANDONED PIPING MUST BE CAPPED AT BOTH ENDS OR REMOVED COMPLETELY.

Additions:	Date	ARCH
Revisions:  SCHEMATIC DESIGN (30%) SUBMISSION  DESIGN DEVELOPMENT (60%) SUBMISSION  CONSTRUCTION DOCUMENTS (90% SUBMISSION)	Date 03/25/15 09/11/15 11/23/15	OKKS Studios, Inc. 2 Wisconsin Circle / S Chevy Chase, MD 20 Tel: (301) 718-0080 Fax: (301) 718-9520 www.okksstudios.con Henry Adams Consu Engineers, LLC. 600 Baltimore Ave, 4t
BID DOCUMENTS	03/17/16	Baltimore, MD 21204 Tel: (410) 296-6500
		Fax: (410) 296-6501

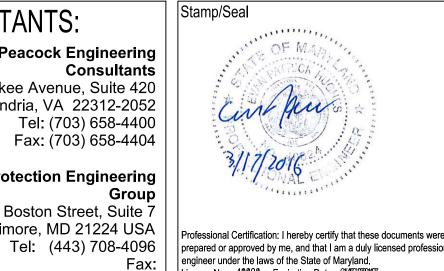
ONE EIGHTH INCH = ONE FOOT (1/8" = 1'-0")

0 4' 8' 16'

| 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16' | 16

## ARCHITECT / ENGINEERS / CONSULTANTS: Woods Peacock Engineering Consultants OKKS Studios, Inc. 2 Wisconsin Circle / Suite 820 5250 Cherokee Avenue, Suite 420

Chevy Chase, MD 20815-7003 Alexandria, VA 22312-2052 Tel: (301) 718-0080 Tel: (703) 658-4400 Fax: (301) 718-9520 Nobis Engineering, Inc. Fax: (703) 658-4404 20410 Century Boulevard, Suite 230 www.okksstudios.com Germantown, MD 20874 Henry Adams Consulting Tel: (301) 528 2010 The Protection Engineering Engineers, LLC. 600 Baltimore Ave, 4th Floor 2809 Boston Street, Suite 7 Baltimore, MD 21224 USA Baltimore, MD 21204



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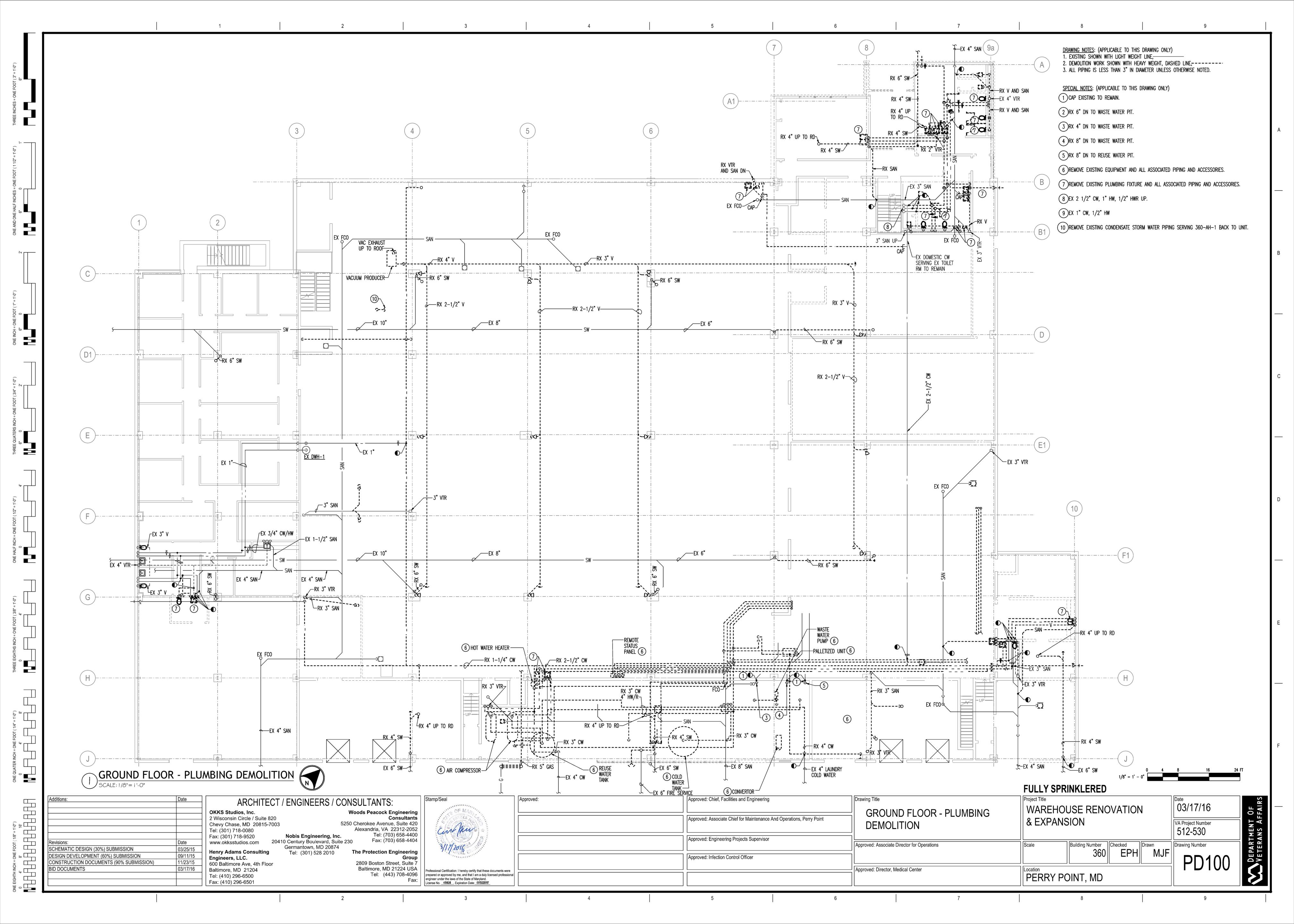
	Approved:	Approved: Chief, Facilities and Engineering	Drawing Title
		Approved: Associate Chief for Maintenance And Operations, Perry Point	PLUMBING CO
		Approved: Engineering Projects Supervisor	Approved: Associate Director for Opera
		Approved: Infection Control Officer	
s were fessional			Approved: Director, Medical Center

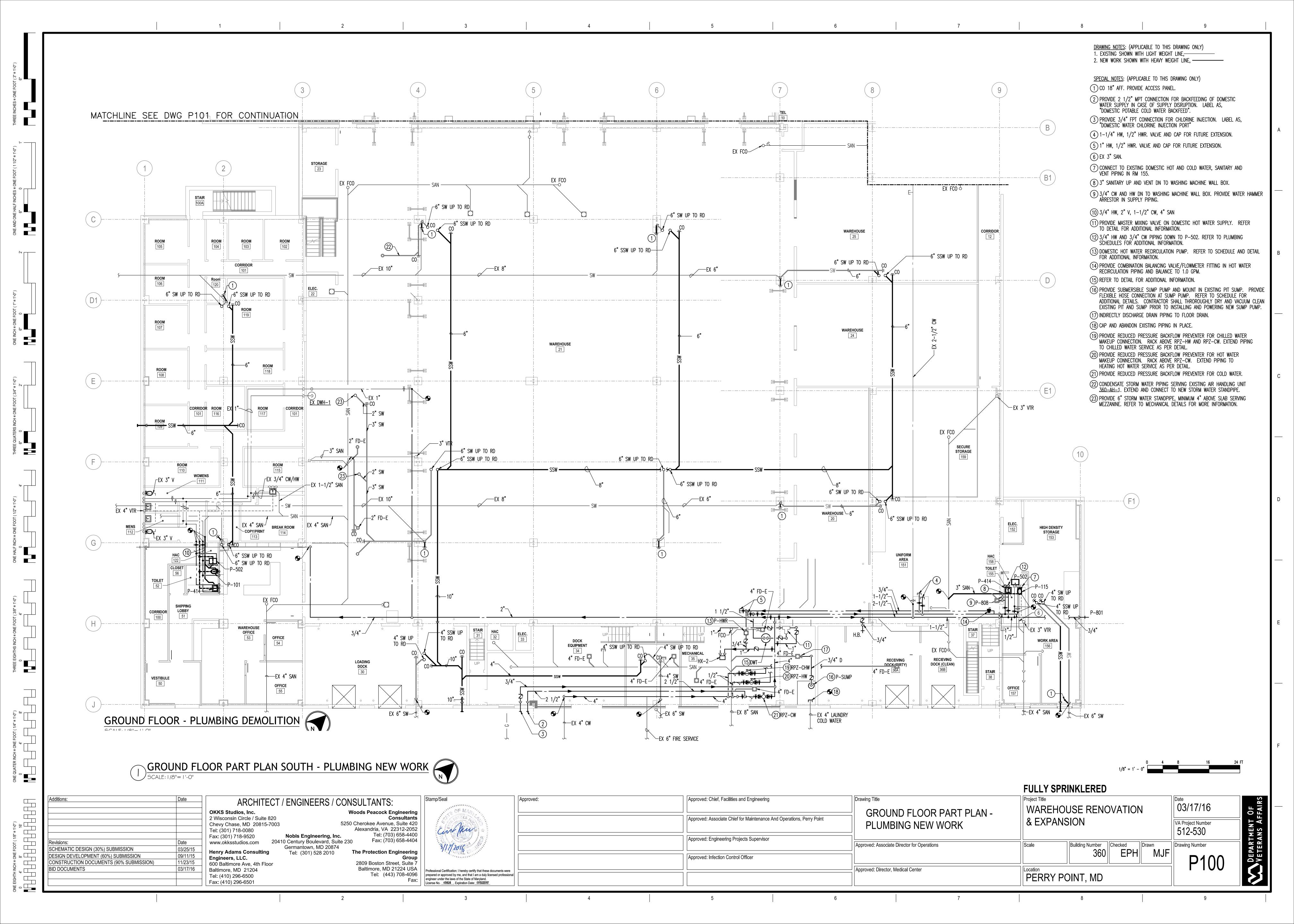
	FULLY SPRINKLERED
IMBING COVER SHEET	WAREHOUSE RENOVATION & EXPANSION
sociate Director for Operations	Scale Building Number Checked EPH Draw

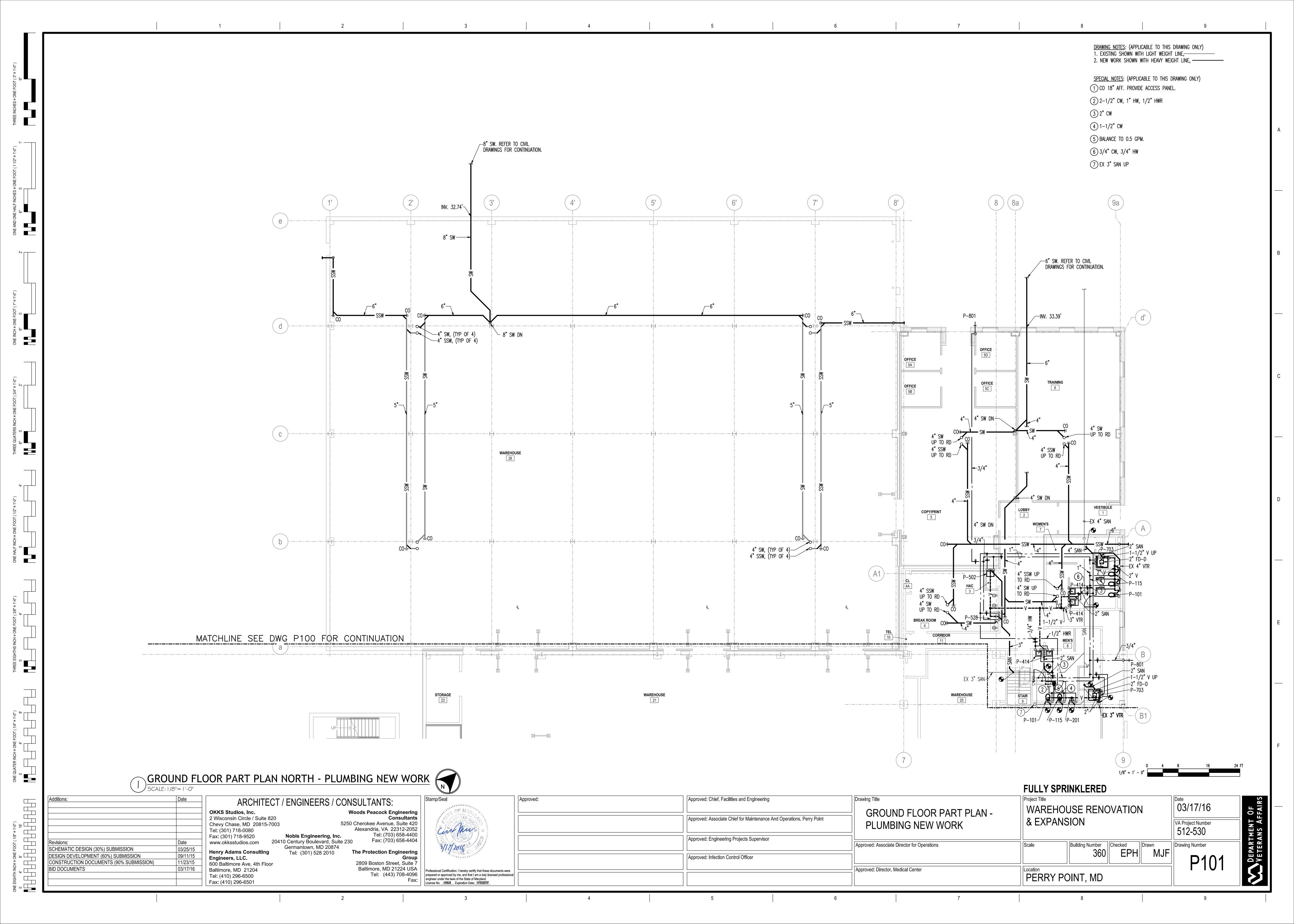
PERRY POINT, MD

DEPARTMENT OF VETERANS AFFAIRS VA Project Number

Drawing Number







NOTES FOR PLUMBING FIXTURES: 1) PLAN DESIGNATION MAY INCLUDE LETTER(S) FOR DIFFERENT FEATURES OR "H" TO DESIGNATE MOUNTING HEIGHT FOR HANDICAPPED USE. PIPING CONNECTION SIZES ARE THE SAME FOR ALL FIXTURES WITH THE SAME NUMBER DESIGNATION. 2) PIPING CONNECTION SIZES ARE BRANCH SIZES WHICH SHALL BE TO FIXTURE ROUGH—IN LOCATION. PROVIDE ADAPTER WHERE PIPE CONNECTION SIZE AT FIXTURE IS DIFFERENT THAN ROUGH—IN PIPE SIZE. (3) INDIVIDUAL VENT PIPE SIZE SHALL BE FROM FIXTURE DRAIN OR DRAINAGE FITTING TO BRANCH VENT OR VENT STACK, EXCEPT WHERE INDICATED OTHERWISE. FLUID GPM V/PH/HZ 360-P-HWR HW RECIRC MECH ROOM 1750-3800 115/1/60 WATER 360-P-SUMP SUMP PUMP | MECH ROOM SUMP | EFFLUENT WATER | 10 | 20 60 1/4 **NOTES FOR PUMPS:** 1) PROVIDE RECIRCULATION PUMP WITH INTEGRAL CONTOLS, CAPABLE OF FUTURE INCREASED DUTY OF 3 GPM AT 10 FEET OF HEAD. BASIS OF DESIGN IS TACO BUMBLE BEE. PROVIDE FULLY SUMBERSIBLE SUMP PUMP WITH MINIMUM 20 FOOT PLUG-IN CORD, 3/4" GARDEN HOSE ADAPTOR, AND INTEGRAL FLOAT SWITCH ACTUATION. BASIS OF DESIGN IS LITTLE GIANT 5.5 SERIES, MODEL NO 505701. DOMESTIC HOT WATER STORAGE TANK 360-DWT | MECH ROOM DOMESTIC HOT WATER 120 24x63 NOTES FOR TANKS: 1 BASIS OF DESIGN IS CEMLINE CST SERIES VERTICAL WATER STORAGE TANK. **FULLY SPRINKLERED** Drawing Title Approved: Chief, Facilities and Engineering Stamp/Seal ARCHITECT / ENGINEERS / CONSULTANTS: Approved: DEPARTMENT OF VETERANS AFFAIRS 03/17/16 WAREHOUSE RENOVATION PLUMBING SCHEDULES OKKS Studios, Inc. Woods Peacock Engineering Consultants 2 Wisconsin Circle / Suite 820 Chevy Chase, MD 20815-7003 Approved: Associate Chief for Maintenance And Operations, Perry Point & EXPANSION VA Project Number 5250 Cherokee Avenue, Suite 420 Alexandria, VA 22312-2052 512-530 Tel: (301) 718-0080 Tel: (703) 658-4400 Nobis Engineering, Inc. Fax: (301) 718-9520 Approved: Engineering Projects Supervisor Fax: (703) 658-4404 20410 Century Boulevard, Suite 230 www.okksstudios.com Approved: Associate Director for Operations Building Number | Checked | Drawn Drawing Number Germantown, MD 20874 Tel: (301) 528 2010 SCHEMATIC DESIGN (30%) SUBMISSION EPH EPH The Protection Engineering Henry Adams Consulting 09/11/15 11/23/15 DESIGN DEVELOPMENT (60%) SUBMISSION Approved: Infection Control Officer Engineers, LLC.
600 Baltimore Ave, 4th Floor Group CONSTRUCTION DOCUMENTS (90% SUBMISSION) 2809 Boston Street, Suite 7 BID DOCUMENTS Baltimore, MD 21224 USA 03/17/16 Baltimore, MD 21204 Approved: Director, Medical Center ofessional Certification: I hereby certify that these documents were Tel: (443) 708-4096 PERRY POINT, MD prepared or approved by me, and that I am a duly licensed professional Tel: (410) 296-6500 engineer under the laws of the State of Maryland. Fax: (410) 296-6501 License No. <u>40828</u>, Expiration Date: <u>61/159/220</u>0167

PLUMBING FIXTURES P-101 | HANDICAPPED TOILET P-115 TOILET 4 2 P-201 URINAL 1-1/2 1/2 | 1-1/2 | 1-1/2 | P-414 | HAND WASHING SINK 1/2 P-502 | JANITORS SINK 3/4 3/4 1/2 | 1-1/2 | 1-1/2 | P-528 BREAK ROOM SINK 1/2 P-703 SHOWER 3/4 3/4 1-1/2 P-801 | WALL HYDRANT 3/4 P-808 WASHING MACHINE BOX 3/4 2 3/4 1-1/2

